

DSM Stanyl® TS250FK33 PA46-(GF+MF)30 FR

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Flame Retarded + Glass Fiber Reinforced

Material Notes:

30% Glass/Mineral Reinforced, Flame Retardant, Low Warpage

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TS250FK33-PA46-GFMF30-FR.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	dry; ISO 1183
Moisture Absorption	1.60 %	1.60 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	120 MPa	17400 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
Tensile Modulus	8.00 GPa	1160 ksi	dry; ISO 527-1/-2
Flexural Modulus	7.60 GPa	1100 ksi	dry; ISO 178
Charpy Impact, Notched	0.400 J/cm ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	55.0 µm/m-°C	30.6 µin/in-°F	dry; ISO 11359-1/-2
Melting Point	295 °C	563 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	280 °C	536 °F	dry; ISO 75-1/-2
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	dry; IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	dry; IEC 60093
Dielectric Strength	30.0 kV/mm	762 kV/in	dry; IEC 60243-1

Electrical Properties	Metric	English	Comments
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